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BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/561,995	BAKER ET AL.
Office Action Summary	Examiner	Art Unit
	Dominic E. Rego	2618
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be tirt will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 23 D This action is FINAL . 2b) ☑ This Since this application is in condition for allowal closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-14 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list.	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)) <u></u> 0	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Saints et al. (US Patent #6,374,085).

Regarding claim 1, Saints teaches a mobile station (*Figure 1, element 12*) (100) for use in a radio communication system (50) comprising a plurality of base stations (*Figure 1, elements 16A and 16B*) (200), the mobile station (100) comprising transmitter means (110), receiver means (120) for receiving signals including transmit power control commands from the plurality of base stations (200) (*Col 2, lines 40-col 3, line 10*), control means (150) adapted to compare the amplitude of the received transmit power control commands with a reliability threshold (*Col 5, lines 4-14: Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold*) and adapted to vary the transmit power of the transmitter means (110) in response to the comparison (*Col 5, lines 4-22: Saint teaches Power control processor 28 produces preferably several (e.g., 8 or 16) power control messages in response to several power level signals per frame, where each power control message can indicate a change in power for the forward link*

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signal. For example, the power control message could be a binary value, where a "1" value requests base stations 16a or 16b to increase the gain of the forward link signal, while a "0" value requests that the signal be decreased), wherein the control means (150) is further adapted to vary the reliability threshold (Col 5, lines 4-15) according to a function of one or more of:

the number of base stations (Figure 1, 16A and 16B) (200) from which the mobile station (figure 1, element 12) (100) receives transmit power control commands;

the number of commands to increase and/or decrease transmit power received in a preceding time period (Col 2, line 53-col 3, line 10;Col 9, lines 5-30);

a measured characteristic of signals received by the mobile station (100) (Col 4, lines 47-col 5, line 3).

Regarding claim 2, Saints teaches a mobile station (100), wherein the measured characteristic of signals received by the mobile station (100) is a measured characteristic of the received transmit power commands (Col 4, lines 47-col 5, line 3).

Regarding claim 3, Saints teaches a mobile station, wherein the control means is adapted to apply different reliability thresholds to the transmit power control commands received from the different base stations (Col 2, lines 53-col 3, line 26).

Regarding claim 4, Saints teaches a radio communication system (50) comprising a plurality of base stations (Figure 1, elements 16A and 16B) (200) and at least one mobile station (100), each base station (200) having a receiver means (220) for receiving signals from the mobile station (figure 1) (100) and a transmitter means (210) for transmitting signals including transmit power control commands to the mobile

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station (Col 2, lines 40-col 3, line 10) (100), and the mobile station (100) having transmitter means (110), receiver means (120) for receiving signals including transmit power control commands from the plurality of base stations (200) (Col 2, lines 40-col 3, line 10), control means (150) adapted to compare the amplitude of the received transmit power control commands with a reliability threshold (Col 5, lines 4-14: Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold) and adapted to vary the transmit power of the transmitter means in response to the comparison (Col 5, lines 4-22: Saint teaches Power control processor 28 produces preferably several (e.g., 8 or 16) power control messages in response to several power level signals per frame, where each power control message can indicate a change in power for the forward link signal. For example, the power control message could be a binary value, where a "1" value requests base stations 16a or 16b to increase the gain of the forward link signal, while a "0" value requests that the signal be decreased), wherein the control means is further adapted to vary the reliability threshold (Col 5, lines 4-15) according to a function of one or more of:

the number of base stations (200) (Figure 1, 16A and 16B) from which the mobile station (100) (figure 1, element 12) receives transmit power control commands;

the number of commands to increase and/or decrease transmit power received in a preceding time period (Col 2, line 53-col 3, line 10;Col 9, lines 5-30);

a measured characteristic of the signals received by the mobile station (100) (Col 4, lines 47-col 5, line 3).

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Regarding claim 5, Saints teaches a radio communication system (50), wherein the control means (150) is adapted to apply different reliability thresholds to the transmit power control commands received from the different base stations (200) (Col 2, lines 53-col 3, line 26).

Regarding claim 6, Saints teaches a method of operating a radio communication system (50) comprising:

transmitting a signal from a mobile station (100); receiving the signal at a plurality of base stations (200) (figure 1);

at each base station (200), in response to receiving the signal, deriving transmit power control commands and transmitting a signal comprising the transmit power control commands (Col 2, lines 40-col 3, line 10); and

at the mobile station (100), receiving the transmit power control commands from the plurality of base stations (200), comparing the amplitude of the received transmit power control commands with a reliability threshold (Col 5, lines 4-14: Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold), and adjusting the transmit power of a mobile station transmitter (110) in response to the comparison, further comprising deriving the reliability threshold (Col 2, line 53-col 3, line 26) according to a function of one or more of:

the number of base stations (200) (Figure 1, 16A and 16B) from which the mobile station (100) (figure 1, element 12) receives transmit power control commands;

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the number of commands to increase and/or decrease transmit power received in a preceding time period (Col 2, line 53-col 3, line 10;Col 9, lines 5-30); a measured characteristic of the signals received by the mobile station (100) (Col 4, lines 47-col 5, line 3).

Regarding claim 7, Saints teaches a method, comprising applying different reliability thresholds to the transmit power control commands received from the different base stations (200) (Col 2, lines 53-col 3, line 26).

Regarding claim 8, Saints teaches a mobile station (100) (Figure 1, element 12) for use in a radio communication system (50) comprising a plurality of base stations (200) (Figure 1, elements 16A and 16B), the mobile station (100) comprising transmitter means (110), receiver means (120) for receiving signals including transmit power control commands from the plurality of base stations (200) (Col 2, lines 40-col 3, line 10), control means (150) adapted to compare the amplitude of the received transmit power control commands with a reliability threshold (Col 5, lines 4-14: Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold) and adapted to vary the transmit power of the transmitter means in response to the comparison (Col 5, lines 4-22: Saint teaches Power control processor 28 produces preferably several (e.g., 8 or 16) power control messages in response to several power level signals per frame. where each power control message can indicate a change in power for the forward link signal. For example, the power control message could be a binary value, where a "1" value requests base stations 16a or 16b to increase the gain of the forward link signal,

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while a "0" value requests that the signal be decreased), wherein the control means (150) is further adapted to scale by a scale factor the amplitude of the received transmit power control commands prior to the measurement (Col 2, line53-col 3, line 26), and wherein the control means is further adapted to vary the scale factor according to a function of one or more of:

the number of base stations (200) (Figure 1, 16A and 16B) from which the mobile station (100) (figure 1, element 12) receives transmit power control commands;

the number of commands to increase and/or decrease transmit power received in a preceding time period (Col 2, line 53-col 3, line 10;Col 9, lines 5-30); a measured characteristic of the signals received by the mobile station (100) (Col 4, lines 47-col 5, line 3).

Regarding claim 9, Saints teaches a mobile station (100), wherein the measured characteristic of signals received by the mobile station (100) is a measured characteristic of the received transmit power commands (CoI 4, lines 47-coI 5, line 3).

Regarding claim 10, Saints teaches a mobile station (100), wherein the control means (150) is adapted to apply different reliability thresholds to the transmit power control commands received from the different base stations (200) (Col 2, lines 53-col 3, line 26).

Regarding claim 11, Saints teaches a radio communication system (50) comprising a plurality of base stations (200) (Figure 1, elements 16A and 16B) and at least one mobile station (100), each base station (200) having a receiver means (220) for receiving signals from the mobile station (100) (figure 1) and a transmitter means

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(210) for transmitting signals including transmit power control commands to the mobile station (100) (Col 2, lines 40-col 3, line 10), and the mobile station (100) having transmitter means (110), receiver means (120) for receiving signals including transmit power control commands from the plurality of base stations (200) (Col 2, lines 40-col 3, line 10), control means (150) adapted to compare the amplitude of the received transmit power control commands with a reliability threshold (Col 5, lines 4-14: Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold) and adapted to vary the transmit power of the transmitter means in response to the comparison (Col 5, lines 4-22: Saint teaches Power control processor 28 produces preferably several (e.g., 8 or 16) power control messages in response to several power level signals per frame. where each power control message can indicate a change in power for the forward link signal. For example, the power control message could be a binary value, where a "1" value requests base stations 16a or 16b to increase the gain of the forward link signal, while a "0" value requests that the signal be decreased), wherein the control means is further adapted to scale by a scale factor the amplitude of the received transmit power control commands prior to the measurement (Col 2, line53-col 3, line 26), and wherein the control means (150) is further adapted to vary the scale factor according to a function of one or more of:

the number of base stations (200) (Figure 1, 16A and 16B) from which the mobile station (100) (figure 1, element 12) receives transmit power control commands;

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the number of commands to increase and/or decrease transmit power received in a preceding time period (Col 2, line 53-col 3, line 10;Col 9, lines 5-30);

a measured characteristic of the signals received by the mobile station (100) (Col 4, lines 47-col 5, line 3).

Regarding claim 12, Saints teaches a radio communication system (50), wherein the control means (150) is adapted to apply different reliability thresholds to the transmit power control commands received from the different base stations (200) (Col 2, lines 53-col 3, line 26).

Regarding claim 13, Saints teaches a method of operating a radio communication system (50) comprising:

transmitting a signal from a mobile station (100); receiving the signal at a plurality of base stations (200) (figure 1);

at each base station (200), in response to receiving the signal, deriving transmit power control commands and transmitting a signal comprising the transmit power control commands (Col 2, lines 40-col 3, line 10);

at the mobile station (100), receiving the transmit power control commands from the plurality of base stations (200) (Col 5, lines 4-14: Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold), scaling by a scale factor the received transmit power control commands, comparing the amplitude of the scaled received transmit power control commands with a reliability threshold and adjusting the transmit power of the mobile station transmitter in response the comparison (Col 5, lines 4-33:

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Saints teaches power control processor 28 receives the power level signal from quality measurement circuit 26, compares the signal to an adjustable threshold), further comprising deriving the scale factor according to a function of one or more of:

the number of base stations (200) (Figure 1, 16A and 16B) from which the mobile station (100) (figure 1, element 12) receives transmit power control commands;

the number of commands to increase and/or decrease transmit power received in a preceding time period (Col 2, line 53-col 3, line 10;Col 9, lines 5-30);

a measured characteristic of the signals received by the mobile station (100) Col 4, lines 47-col 5, line 3).

Regarding claim 14, Saints teaches a method, comprising applying different reliability thresholds to the transmit power control commands received from the different base stations (200) (Col 2, lines 53-col 3, line 26).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ahmed et al. (US Patent #5,946,346) teaches method and system for generating a power control command in a wireless communication system.

Lundby et al. (US Patent Application Publication #2006/0270443) teaches forward link power control of multiple data streams transmitted to a mobile station using a common power control channel.

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Lundby (US Patent Application Publication #2003/0083082) teaches method and apparatus for adjusting a signal-to-interference threshold in a closed loop power control communication system.

Chi et al. (US Patent Application Publication #2006/0189342) teaches power control avoiding outer loop wind-up.

Bae (Us Patent Application Publication #2001/0006898) teaches method and apparatus for forward and reverse power control in mobile telecommunication system.

Livee et al. (US patent Application Publication #2006/0079268) teaches congestion control in a wireless communication system using the battery level.

Lee et al. (US Patent Application Publication #2003/0125068) teaches method of performing power control in a mobile communication system.

Suonsivu et al. (US Patent #6,542,581) teaches method for controlling the transmission power in a digital subscriber line.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dominic E. Rego whose telephone number is 571-272-8132. The examiner can normally be reached on Monday-Friday, 8:30 am-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Dőminic E. Rego.

PHILIP J. SOBUTKA
PATENT EXAMINER